Inter..... Application No

		. PCT/GB	32004/002408	
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A61K47/48			
According to	o International Patent Classification (IPC) or to both national classific	ation and IPC		
	SEARCHED			
	ocumentation searched (classification system followed by classification A61K	on symbols)		
	tion searched other than minimum documentation to the extent that s			
	ata base consulted during the international search (name of data baternal, WPI Data, PAJ, BIOSIS, CHEM		used)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
X	WO 99/61911 A (HOSTETLER MICHAEL J; TEMPLETON ALLEN C (US); UNIV NORTH CAROLINA (US)) 2 December 1999 (1999-12-02) page 6		1-5,11, 20-22, 25-28, 30-33, 40,52, 53,58	
	page 8, paragraph 3 - page 9, pa page 10, paragraph 2; claims 6,8	·		
		-/		
			-	
X Furt	ther documents are listed in the continuation of box C.	X Patent family members are	listed in annex.	
Special categories of cited documents: Trelater document published after the international filing date or priority date and not in conflict with the application but				
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "It document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to			e; the claimed invention	
"L" docume which citatio "O" docum	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another on or other special reason (as specified) tent referring to an oral disclosure, use, exhibition or means	involve an inventive step when "Y" document of particular relevance cannot be considered to involv document is combined with on ments, such combination being	the document is taken alone e; the claimed invention e an inventive step when the e or more other such docu-	
"P" docum	ent published prior to the international filing date but than the priority date claimed	in the art. "&" document member of the same		
Date of the actual completion of the international search 17 November 2004		Date of mailing of the international search report 7. 04. 2005		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,		Authorized officer Gonzalez Ramon, N		
Fax: (+31-70) 340-3016		GUILATEL KAHUH, N		

Inte Application No
PCT/GB2004/002408

		FC1/4B2004/002400
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Helevant to claim No.
X	WO 02/32404 A (MARTIN LOMAS MANUEL; ROJO JAVIER (ES); PENADES SOLEDAD (ES); CONSEJO) 25 April 2002 (2002-04-25) page 7, paragraph 1-3	1,3-5, 11-15, 20-36, 40,44, 45,49, 52-56, 58,60-65
	page 8, paragraph 2 page 5, paragraph 2 page 28, paragraph 2; claims 1,4-6,12-16,18-23,25-35,39; figure 2	
X	TERANISHI T. ET AL: "Fabrication of gold nanoparticle superlattices and their optical and electronic properties" GOLD, 2003, pages 978-982, XP002306166	1,3-5, 11,14, 15, 20-22, 28,31, 32,40, 52-54,58
	abstract page 980; figure 4	
Y	SRIKANTH H. ET AL: "Dynamic transverse susceptibility in Au-Fe-Au nanoparticles" MATERIALS SCIENCE AND ENGINEERING, vol. 304-306, 2001, pages 901-904, XP002306167	1-15, 20-36, 40-46, 49, 51-56, 58,60-65
	page 901, column 2, paragraph 2	
Y	PARK S.J. ET AL: "Synthesis and magnetic studies of uniform iron nanorods and nanospheres" J. AM. CHEM. SOC., vol. 122, 2000, pages 8581-8582, XP002306168 page 8581, column 2, paragraph 3	1-15, 20-36, 40-46, 49, 51-56, 58,60-65
P,Y	WO 03/086660 A (US GOVERNMENT) 23 October 2003 (2003-10-23)	1-15, 20-36, 40-46, 49, 51-56, 58,60-65
	page 1, paragraph 3; claims 4-7,10-12	
	A230 (continuation of second sheet) (January 2004)	

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:						
Although claims 60-65 are directed to a diagnostic method practised on the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.						
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:						
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).						
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)						
This International Searching Authority found multiple inventions in this international application, as follows:						
see additional sheet						
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.						
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.						
3. As only some of the required additional search fees were timely paid by the applicant, this international Search Report covers only those claims for which fees were paid, specifically claims Nos.:						
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-11, 14, 15, 20-36, 40-46, 49, 51-56, 58, 60-65 (all partially), 12 13 (all completely)						
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.						

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 12, 13 complete 1-11, 14, 15, 20-36, 40-46, 49, 51-56, 58, 60-65 in part

Magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand incorporates a lanthanide. Excluding the subject matter of inventions 2-9

2. claims: 16, 17, 47, 48, 57, 59 complete; 1-11, 14, 15, 20-36, 40-46, 49-56, 58, 60-65 in part

Magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand comprises a carbohydrate group (polysaccharide, oligosaccharide, monosaccharide). Excluding the subject matter of inventions 1, 3-9.

3. claims: 18, 19 complete; 1-11, 14, 15, 20-36, 40-46, 49, 51-56, 58,60-65 in part

Magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand comprises a glycanoconjugate (glycolipid or glycoprotein). Excluding the subject matter of inventions 1, 2, 4-9.

4. claims: 1-11, 14, 15, 20-37, 39 in part

Use of a magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand comprises an antigen for the preparation of a medicament for vaccinating. Excluding the subject matter of inventions 1-3, 5-9.

5. claims: 38 complete; 1-11, 14, 15, 20-37, 39 in part

Use of a magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand comprises a nucleic acid encoding an antigen for the preparation of a medicament for vaccinating. Excluding the subject matter of inventions 1-4, 6-9.

6. claims: 1-11, 14, 15, 20-36, 40-46, 49, 50 in part

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Use of a magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand comprises a hormone or DHEA for the preparation of a medicament for treatment of cancer metastasis. Excluding the subject matter of inventions 1-5, 7-9.

7. claims: 1-11, 14, 15, 20-36, 40-46, 49, 50 in part

Use of a magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand comprises a peptide capable of binding to a cell-specific receptor for the preparation of a medicament for treatment of cancer metastasis. Excluding the subject matter of inventions 1-6, 8, 9.

8. claims: 1-11, 14, 15, 20-36, 40-46, 49, 50 in part

Use of a magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand comprises a lipid for binding a toll receptor for the preparation of a medicament for treatment of cancer metastasis. Excluding the subject matter of inventions 1-7, 9.

9. claims: 1-11, 14, 15, 20-36, 40-46, 49, 50 in part

Use of a magnetic nanoparticle of less than 2.5 nm diameter having a core of metal atoms wherein the core is covalently linked to a plurality of ligands wherein the ligand comprises methylene blue for the preparation of a medicament for treatment of cancer metastasis. Excluding the subject matter of inventions 1-8.

Information on patent family members

Inte....al Application No PCT/GB2004/002408

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9961911 A	02-12-1999	AU 6016999 A CA 2329859 A1 EP 1073902 A2 WO 9961911 A2	13-12-1999 02-12-1999 07-02-2001 02-12-1999
WO 0232404 A	25-04-2002	AU 9406801 A CA 2424734 A1 EP 1326589 A2 WO 0232404 A2 JP 2004511511 T US 2004052729 A1	29-04-2002 25-04-2002 16-07-2003 25-04-2002 15-04-2004 18-03-2004
WO 03086660 A	23-10-2003	US 2003190475 A1 AU 2003209238 A1 WO 03086660 A1 US 2003190471 A1	09-10-2003 27-10-2003 23-10-2003 09-10-2003
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